```
MAETVLSMARSLVGSAISKAASAAADETSLLLGVEKDIWYIKDELKTMQAFLRAAELMKKDELLKVWAEQIRDLSYDIEDSLDEFKVHIESQTLFRQLVKLRERHRIAIRIHNLKSRVEEVSSRNTRYSLVKPISSGTEIDMDSYAEDI  150

RNQSARNVDEAELVGFSDSKKRLLEMIDTNANDGPAKVICVVGMGGLGKTALSRKIFESEEDIRKNFPCNAWITVSQSFHRIELLKDMIRQLLGPSSLDQLLQELQGKVVVQVHHLSEYLIEELKEKRYFVWLDDLWILHDWNWINEIAF  300

PKQNKKGSRIVITTRNVDLAEKCATASLVYHLDFLQMNDAITLLLRKTNKNHEDMESNKNMQKMVERIVNKCGRLPLAILTIGAVLATKQVSEWEKFYEHLPSLEALRRMVTLGYNHLPSHLKPCFLYLSIFPEDFEIKRNRL  450

VGRWIAEGFVRPKVGMTTKDVGESYFNELINRSMIQRSRVGIAGKIKTCRIHDIIRDITVSISRQENFVLLPMGDGSDLVQENTRHIARHGSMSCKTGLDWSIIRSLAFGDRPKSLAHAVCPDQLRMLRVLDLEDVTFLITQKDFDRIA  600

LLCHLKYLSIGYSSSIYSLPRSIGKLQGLQTLNMFSTYIAALPSEISKLQQLHTLRCJGQFHYDNFSLNHPMKCINTICLPKVFTPLVSRDDRANQIAELHNATKSCWSESIGVKVPKGIGKIRDLQVLEYVDIRRTSSRAIKELGQLS  750

KLRKLGVTTNGSTKEKCKILYAAIEKLSSLQSLHVLAAGISDGGTLECLDSISSPPLKRTIVLDSILEEMPNWIEQLTHLKKIIYLLRSKLKEGKTMLIIGALPFLMVLHLYRNAYLGEKLVFKTGAFNLRTLWIYELDQLREIRFEDG  900

SSPLLEKIEIGCRLESGITGIIHLPKLKEIPIFYGSKVAGLGQLEGEVNAHINRPVLLMYSDRRYHDLGAEAEGSSIEVQTADPVFDAEGSVTVAVEATDPLPEQEGESSQSQVITLTTNDSEEIGTAQAG  1032
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Appendix A Conserved domains of NBS4 (SEQ ID NO:8).
The conserved motifs in the NBS domain are underlined and bolded and the LRR repeats based on the motif xxLxLxx in the LRR domain are indicated by squares.